

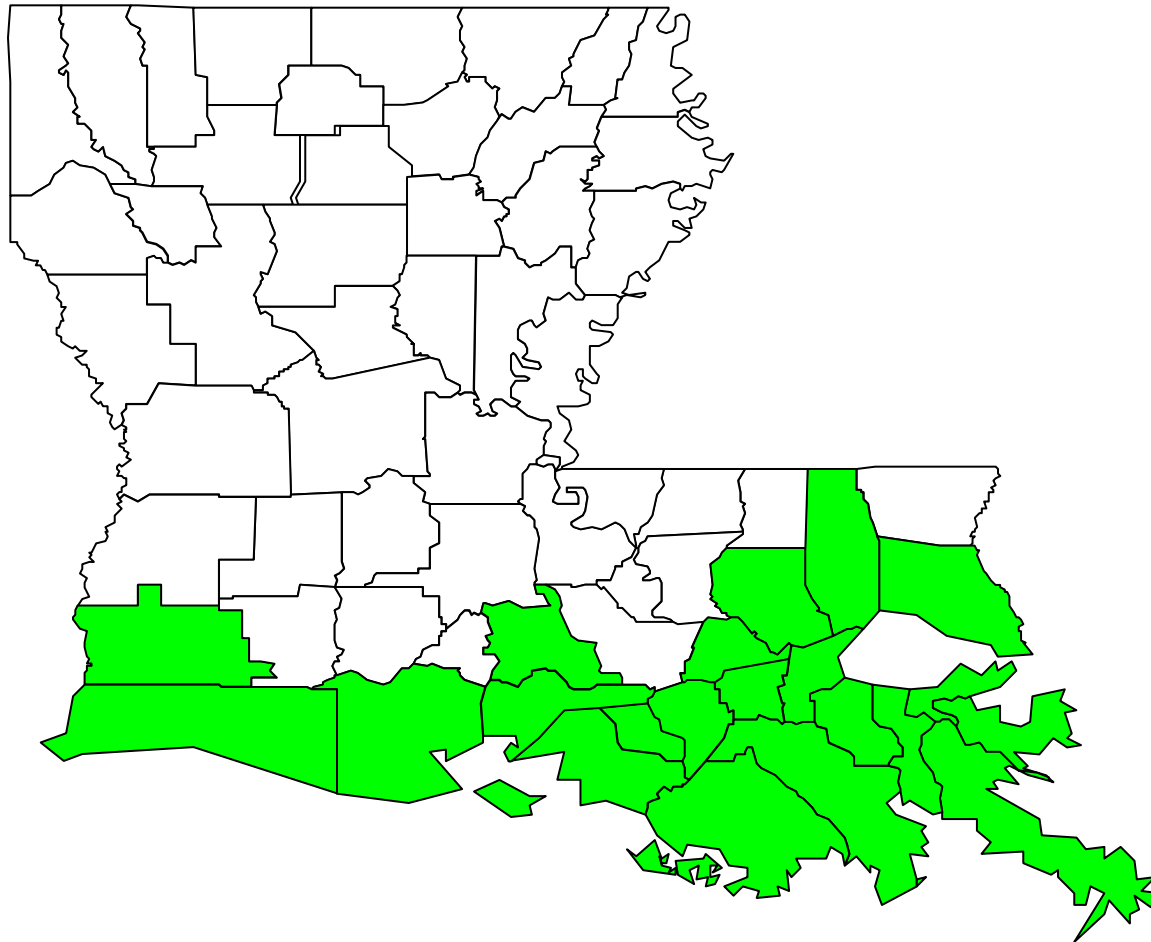
# LOUISIANA SEA GRANT PROGRAM 2010 NSGO FALL REVIEW

Gene W. Kim

# Insert map of program area

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# Program Management

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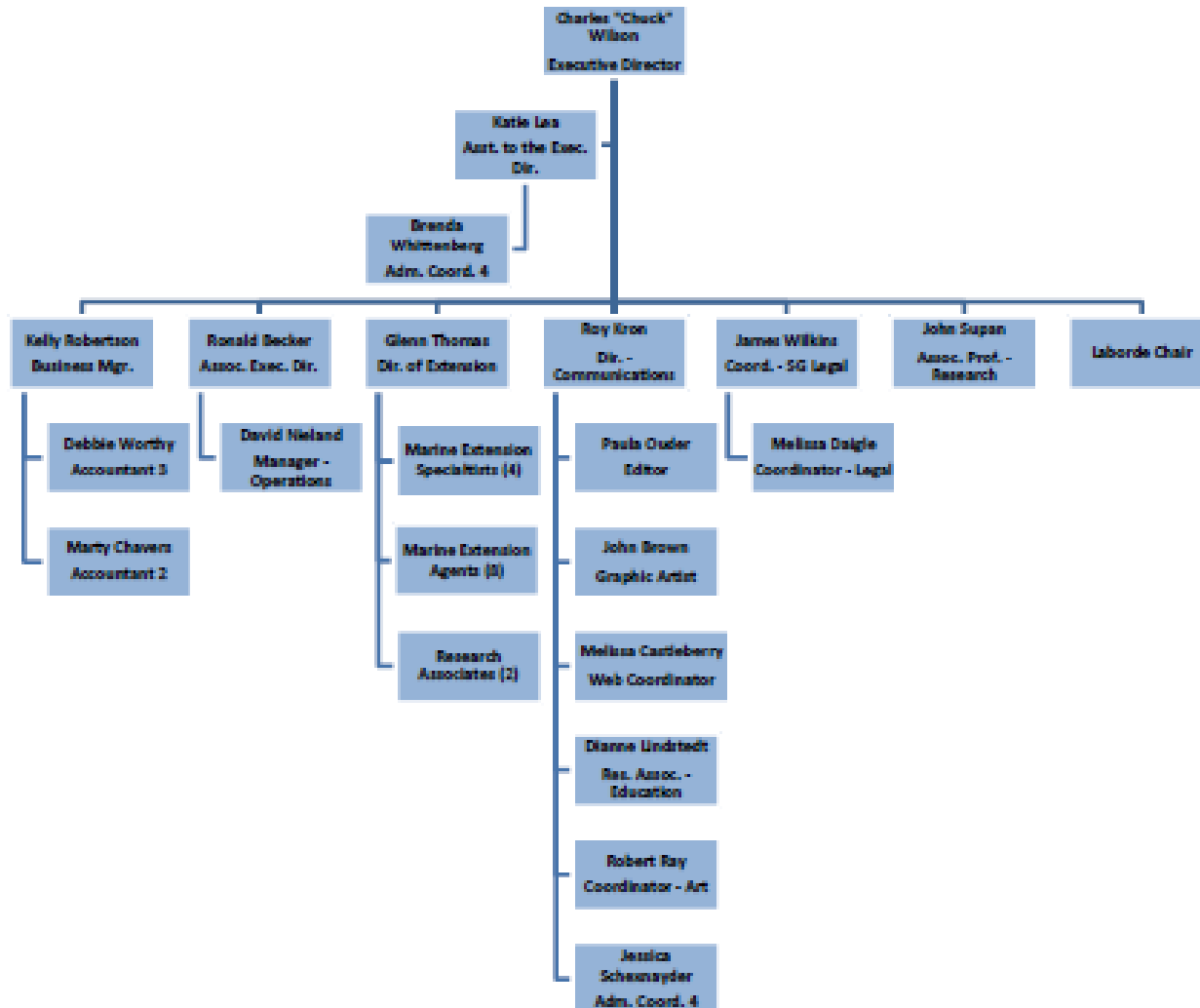
## □ Management Team

- ▣ Executive Director, Charles Wilson (0.6 FTE)
- ▣ Associate Director, Ron Becker (1.0 FTE)
- ▣ Manager for Operations, David Nieland (1.0 FTE)
- ▣ Business Manager, Kelly Robertson (1.0 FTE)
- ▣ Assistant to the Executive Director, Katie Lea, (1.0 FTE)
- ▣ Marine Extension Director, Glenn Thomas (1.0 FTE)
- ▣ Marine Education Director, Dianne Lindstedt (1.0 FTE)
- ▣ Outreach/Communications Director, Roy Kron (1.0 FTE)

# Program Organizational Chart

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# Extension Program Organizational Chart

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- Eight area extension agents- multi-parish responsibilities
- Eight subject-matter specialists at LSU
  - ▣ Expertise in fisheries, aquaculture, watershed management, resource economics, disaster planning and management
  - ▣ Since 2005 (Katrina, Rita) and 2008 (Gustav, Ike) hurricanes, extension focused on coastal resilience, hazard awareness, and weather/climate preparedness
  - ▣ LA Sea Grant Extension ideal to address climate change on the local level:
    - Effect of sustainability of communities and ecosystems in hurricane-prone areas
    - Loss of coastal wetlands

# Program Management – Advisory Council

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- LASG Advisory Council – 16 members from academia, private industry, state and federal government agencies, and NGOs
  - **Mr. Scott Angelle**, Secretary  
Louisiana Department of Natural Resources
  - **Dr. Virginia Burkett**  
Forest Ecology Branch  
U.S. Geological Survey
  - **Dr. J. Douglas Daigle**, Director  
Coastal Restoration and Enhancement Through Science and Technology Program (CREST)
  - **Mr. Garrett Graves**  
Executive Assistant to the Governor  
Governor's Office on Coastal Activities
  - **Dr. James Coleman**  
Coastal Studies, LSU
  - **Mr. Doug Drennan**  
Aquaculture Systems Tech.
  - **Mr. John P. Laborde**, Emeritus Member  
Tidewater Inc., Chairman Emeritus and Director
  - **Mr. Robert Barham**, Secretary  
Louisiana Department of Wildlife & Fisheries
  - **Dr. Harold Leggett**, Secretary  
Louisiana Department of Environmental Quality
  - **Mr. Kai D. Midboe** (Sea Grant Legal Advisory panel)  
Milling Benson Woodward, L.L.P.
  - **Mr. Charles Nelson** (Peter Smith, alternate)  
Waldemar S. Nelson and Company, Inc.
  - **Mr. Buddy Pausina**  
Metairie, LA
  - **Mr. Corky Perret**, Director  
Office of Marine Fisheries  
Mississippi Dept. of Marine Resources
  - **Ms. Jean Cowan**, Restoration and Mitigation Manager  
NOAA  
Louisiana State University Campus
  - **Mr. Kerry St. Pe**, Program Director  
Barataria Terrebonne National Estuary Program Office  
Nicholls State University Campus
  - **Dr. Jack Van Lopik** (Professor Emeritus)  
Louisiana Sea Grant College Program  
Louisiana State University

# Program Management – Advisory Board (cont.)

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- The **Louisiana Sea Grant Legal Advisory Panel** is composed of lawyers from private practice, academia, and state government.
  - Mr. Kai Midboe, McGlinchey Stafford law Firm
  - Mr. Mark Davis, Tulane University
  - Mr. Mike Wascom, Louisiana State University
  - Mr. Ryan Seidemann, Office of the Louisiana Attorney General
  - Ms. Amy Berret, Kean Miller Law Firm
- The **Louisiana Sea Grant Education Advisory Panel** draws its membership from *Louisiana State University, University of New Orleans, Louisiana Wildlife and Fisheries, Barataria Terrebonne National Estuary Program and the Louisiana Universities Marine Consortium (LUMCON)*.
  - Dr. Pam Blanchard, Louisiana State University
  - Dr. Brenda Nixon, Louisiana State University
  - Ms. Jennifer Conover, LUMCON
  - Ms. Angela Capello, Louisiana Department of Wildlife and Fisheries
  - Ms. Susan Bergeron, Barataria Terrebonne National Estuary Program
  - Ms. Dinah Maygarden, University of New Orleans

# Program Management – Advisory Board (cont.)

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- The **Louisiana Sea Grant Academic Advisory Panel** is composed of academicians/scientists representing *Louisiana State University, University of Louisiana at Lafayette, Southern University, University of New Orleans, Nicholls State University, and the Louisiana Universities Marine Consortium (LUMCON)*.
  - Dr. Earl Melancon, Nicholls State University
  - Dr. Edward Chesney, Louisiana Universities Marine Consortium
  - Dr. Irving Mendelssohn, Louisiana State University
  - Dr. Raymond Bauer, University of Louisiana at Lafayette
  - Dr. Kelly Rusch, Louisiana State University
  - Dr. Riyadh Al-Raoush, Southern University
  - Dr. Terrence Tiersch, LSU AgCenter
  - Dr. Shirley Laska, University of New Orleans

# Institutional Setting

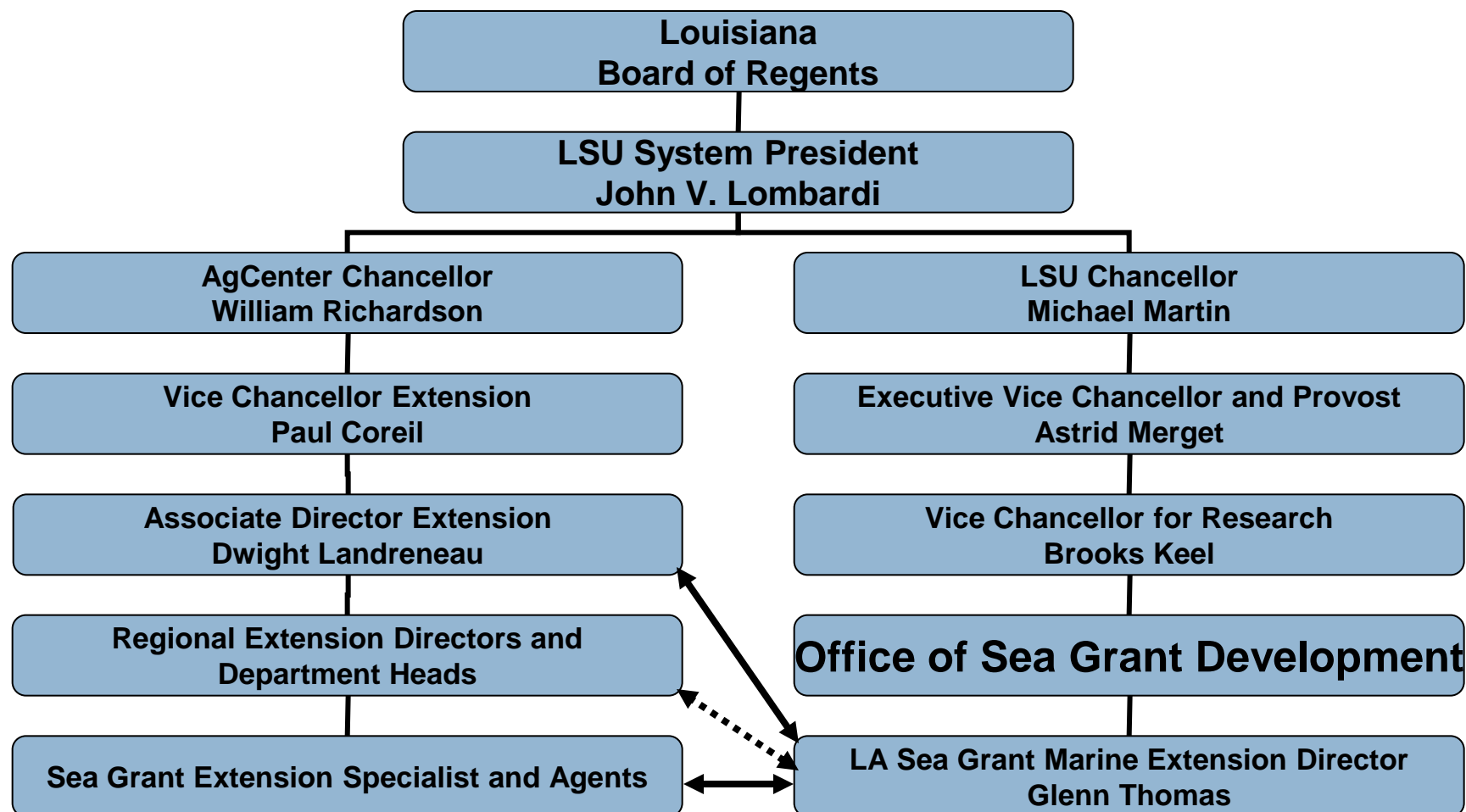
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- LASG administered by the Office of Sea Grant Development (OSGD) at LSU
- OSGD reports to the Office of Research and Economic Development

# Institutional Setting (cont.)

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# State Sea Grant Program Plan – Estimated 4-yr Budget Allocation by focus area

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National Focus Area	Focus Area from Program Strategic Plan	Estimated Level of Effort of Federal, Match and Leveraged (%)	Estimated Level of Effort of Federal and Match (\$)	Estimated Level of Effort of Leveraged (\$)
Safe & Sustainable Seafood Supply	Safe & Sustainable Seafood Supply	40%	\$3,942,400	\$700,000
Sustainable Coastal Development	Sustainable Coastal Development	15%	\$1,478,400	\$40,000
Healthy Coastal Ecosystems	Healthy Coastal Ecosystems	30%	\$2,956,800	\$40,000
Hazard Resiliency in Coastal Communities	Hazard Resiliency in Coastal Communities	15%	\$1,478,400	\$40,000
Total		100%	\$9,856,000	\$820,000

# Perf. Measure/Outcome Highlights

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- ❑ Ocean Commotion – annual attendance of 2,500 elementary students
- ❑ Coastal Roots – 25 schools, 100s of students, dozens of acres of marsh vegetation plantings
- ❑ Hazard Mitigation Guidebook and Workshops
- ❑ Oral histories of Louisiana culture and industries
- ❑ Coastal Science Assistantship Program
- ❑ HAACP workshops for seafood industry

# Major Partners

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- ❑ 19 coastal parishes
- ❑ Penland Coastal Education & Research Facility (UNO)
- ❑ Captain Pete's Oyster's and P&J Oyster Company
- ❑ Audubon Institute
- ❑ Governor's Office of Coastal Protection and Restoration
- ❑ Louisiana Department of Wildlife & Fisheries

# 2008 / 2009 Network Activities<sup>LA SG</sup>

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- Chuck Wilson - Vice Chairman for SSSS Focus Team,  
at-large member SGA Board of Directors
- Roy Kron – Chair of National Communications Network, Vice Chair for the SGA Networks Advisory Council
- Gulf of Mexico Regional Collaboration
- Dianne Lindstedt – Healthy Coastal Ecosystems Focus Team Member
- Planning Committee for SSST meeting and Sea Grant Week

# 2010 RFP Process

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- RFP priorities from the goals and objectives in the LASGP Strategic Plan 2009-2013
  - 12/16/08 - Request for Preliminary Proposals (4-page pre-proposals), listing the priority strategies for 2010-2012 cycle:
    - HCE 1.1.1. Benchmark costs and benefits of coastal marsh restoration and protection projects
    - HCE 1.1.2. Louisiana wetland river diversion and sediment conveyance projects
    - HCE 1.2.1. Socio-economic impacts of coastal restoration projects
    - HCE 1.2.2. Educate Louisiana residents and community leaders
    - SCD 2.2.1. Educate coastal communities in responsible water management policies and practices
    - SCD 2.3.1. Design and implement outreach on sustainable use of coastal resources.
    - SSSS 3.1.1. Restore native recreational and commercial finfish and shellfish populations
    - SSSS 3.2.1. Develop new seafood processing technologies, products, management practices, and byproduct uses
    - SSSS 3.2.2. Promote seafood harvesting strategies optimize profitability and environmental impacts.
    - HRCC 4.1.1. Interactions among sea level rise, subsidence, and storm surge
    - HRCC 4.2.1. Improved land use and waterfront planning, building codes and disaster preparedness
    - HRCC 4.2.2. How natural features and man-made structures provide defense against hazards.
- 3/6/09 – Screening panel (n=11), including in-state users, reviewed 37 pre-proposals
  - Encouraged 17 of 37 for full proposals (applicability and responsiveness to strategic plan)
- 6/25/09 – Technical Review Panel, reviewed 24 full proposals
  - Included at least 3 external technical reviews per proposal
  - Panel included Federal (USDA, NMFS, FDA) State (MS DMR, LSU AgCenter, LA Coastal Areas S&T Program, NC Sea Grant), and private sector

# 2008 / 2009 Program Metrics —<sub>LA SG</sub>

## Awards and Honors

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- Roy Kron – Elected chair-elect of National Communications Network
- Dr. Brian LeBlanc – LSU three-year endowed Chair
- Superior Outreach Programming Award by SG Extension Leaders for work titled, "Helping Rebuild Critical Fisheries Infrastructure"
- 2009 Eco Award of Merit in Environmental Communications and APEX Award for the Marsh Mission classroom CD.
- Gulf Guardian Award for work in marine debris mapping
- Paula Ouder – First Place Award from the Louisiana Outdoor Writers Association for Chandeleur Lighthouse films.

# 2008 / 2009 Highlights of Metrics

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- 6 Knauss Fellows from 2004 to 2009
- 7 Coastal Science Assistantships (11 next year)
- 1 NMFS Sea Grant Population Dynamics Fellow
- 1 NMFS Sea Grant Resource Economics Fellow
- 27 undergrad and 36 grad students supported
- 12 Program Development projects
- 435 publications including 40 peer reviewed articles

# 2008 / 2009 Program Impacts <sup>LA SG</sup>

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## The Next Storm Surge

- Teaching a whole new generation of coastal dwellers about the dangers of living in south Louisiana during hurricane season is the goal of a series of evening programs being presented in coastal communities. It is designed to give people basic hurricane-season information and dispel myths they may still hold about storm surges. The information package put together by Maurice Wolcott, coastal Geographic Information Systems specialist with Louisiana Sea Grant, to accomplish this is called “The Next Storm Surge” and is sponsored by the LSU AgCenter, Louisiana Sea Grant and Bayou Interfaith Shared Community Organization.

## Shrimpers take Sea Grant advice; use new netting in TEDs

- To cope with the soaring cost of fuel, shrimpers in Intracoastal City, LA are incorporating sapphire netting, as advised by extension agent Thu Bui, in their TEDs to increase fuel efficiency. At a cost of \$7.58/lb, it cost about \$500 to rig up eight TEDs with the sapphire netting. However, the advantages of the sapphire netting include: 1) Cost more than nylon, but does not need to be dyed. 2) Harder to mend, but used only in the TEDs. 3) Lighter and doesn't catch as much debris, so proving to be more fuel efficient than other netting types.

# 2008 / 2009 Program Impacts— con't

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## Louisiana Sea Grant assesses 2008 hurricane damage

□ Led by Dr. Rex Caffey, Louisiana Sea Grant, LSU AgCenter, and the Center for Natural Resource Economics & Policy provided estimates of the economic damage from Hurricanes Gustav and Ike to fisheries in Louisiana. Extension personnel statewide provided the initial assessments of damage to fisheries infrastructure that were quantified and refined into broader-scope fisheries economic damage assessments. Based on these assessments, fisheries infrastructure suffered damages of an estimated \$76 million with another \$58 million in revenue loss.

## Louisiana Sea Grant founds Louisiana Fisheries Community Recovery Coalition

□ Louisiana Sea Grant was instrumental in creating and providing the initial technical support for the Louisiana Fisheries Community Recovery Coalition (LFCRC). This coalition of 25 commercial and recreational fishing organizations was established in January 2006 for the purpose of: 1) Developing objective economic assessments of damages to coastal Louisiana fisheries infrastructure from the 2005 hurricane season; 2) Securing state and federal disaster aid funding; and 3) Providing guidance on the appropriate allocation of disaster funding among coastal fisheries interests.

## Louisiana Sea Grant builds sustainable coastal community

□ In September 2005, a 10-foot storm surge from Hurricane Rita swept through the community, causing damages totaling \$9.9 million. A coalition of elected and community leaders formed the Delcambre Town/Ports Steering Committee, and committee members contacted Louisiana Sea Grant to see how it could assist. Sea Grant connected the committee with the landscape architecture program at Louisiana State University (LSU). With Sea Grant funding, LSU senior landscape architecture students met with Delcambre residents, walked the town and developed a conceptual redevelopment plan for the waterfront and surrounding area.

# 2008 / 2009 Research Accomplishments

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## Research Impact: Nutrition research advances marine fish farming

- The economic success of intensive offshore mariculture depends in part on nutritionally complete diets that produce maximum lean weight gain for minimum cost. The research of Dr. Robert Reigh of Louisiana State University on amino acid requirements in fish food will help develop biologically efficient, cost-effective diets for pompano, a likely species for use in future efforts in offshore mariculture. Reigh's research brings us one step closer to the national objective of developing successful marine fish farming in the United States.

## Research Impact: Compound in Oysters Effective in Preventing Cancer Growth

- A compound found in oysters is effective in preventing the growth of cancer cells, according to a Louisiana Sea Grant researcher. Ceramides – a lipid or fat compound – found in oysters, other animals and plants are currently in clinical trials to speed the healing process in patients undergoing chemotherapy. In a research paper recently presented at the Annual Meeting of the Institute for Food Technology, Dr. Jack Losso of the LSU Agcenter Department of Food Science detailed his use of oyster ceramides to arrest breast cancer cells grown in test tubes and laboratory rats. “This is incredibly exciting,” said Losso, whose research was funded by Louisiana Sea Grant and the AgCenter. “When we looked at cancer cells treated with ceramides, their growth had been inhibited and they were dying.”

# Best Management Practices<sup>LA SG</sup>

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- Louisiana Sea Grant proposes to develop a Climate Planning Outreach Team composed of personnel from the law and policy, extension and outreach, and education networks within our organization
- Locating and tracking graduate students
- Education and Outreach: Ocean Commotion, Coastal Roots, Wetland Nursery Program, Marsh Maneuvers
- Linking research to economic development
- Regional projects with TX, AL/MS, and FL Sea Grants
- Coastal Science Assistantship Program
- Assisting with the continuing hurricane recovery